I-1

CYCLIC TIMER From 1 sec. To 3 min.

The I-1 modul is a standard timer with relay output, available for all loads. Thanks to an adjustable potentiomer inserted in the circuit, you could select a time from 1 sec to 3 min. You could activate the timer supplying voltage and/or closing contacts using a push button. It includes protection against polarity inversions, led to indicate timer operating, connector to withdraw the potentiometer at the exterior and connectio terminals.
Do not forget to read all the information sheet in order to obtain a perfect operating of the module.

TECHNICAL CHARACTERISTICS.

Voltage	12 VDC.
Minimum Consumption	15 mA.
Maximum Consumption	70 mA.
Minimum Timer	1 Sec.
Maximum Timer	3 Min.
Maximum Output Load by Relay	5 A.
Protection Against Polarity Inversions	Yes.
Led To Indicate Timer Operating	Yes.
Sizes	76 x 43 x 30 mm.

OPERATING.

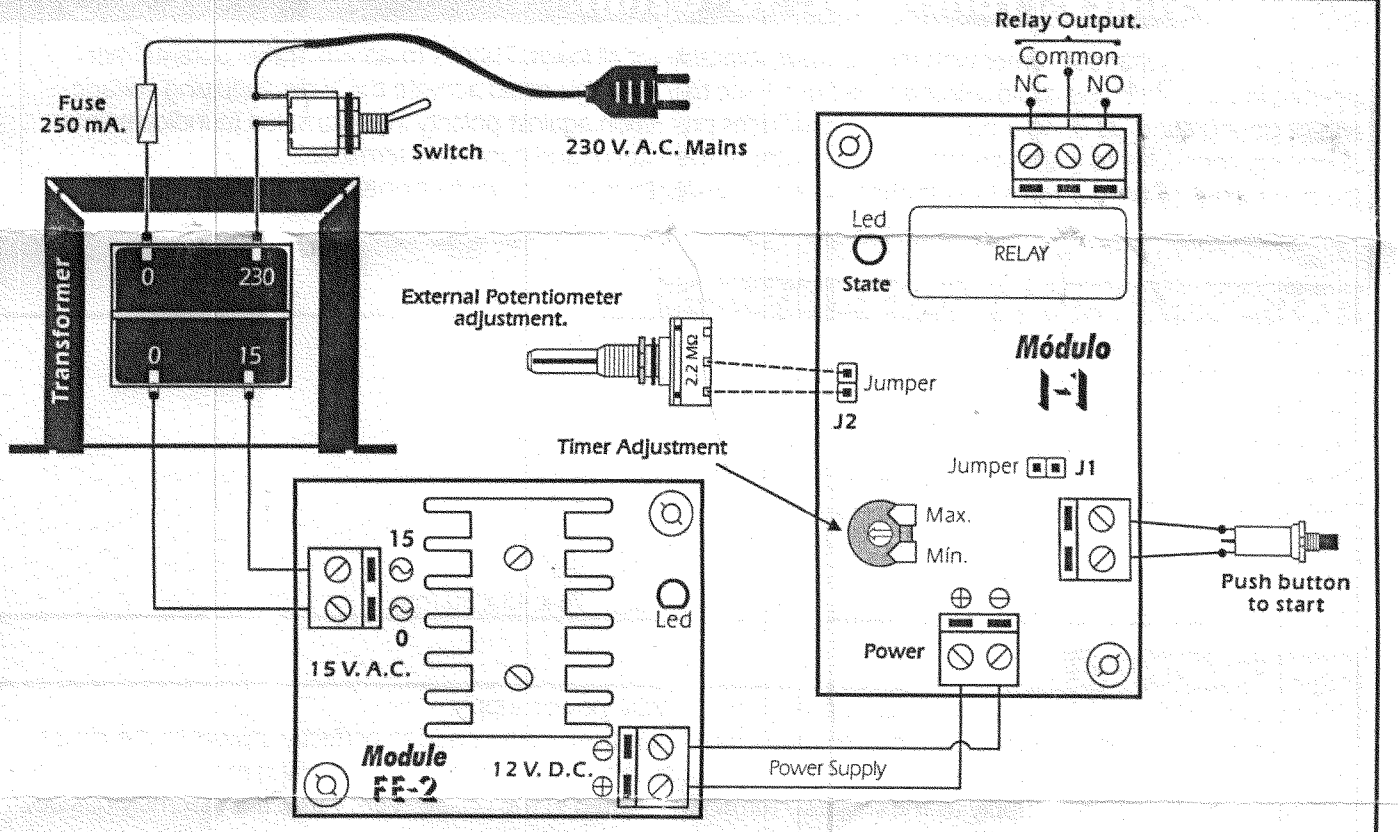
POWER SUPPLY. The I-1 circuit had to be supplied by a 12 VDC power supply.
Then, we recommended you the FE-2 power supply which has been developped to perfectly answer to the circuit needs. Connect the positive of the power supply to the positive terminal indicated in the wiring map, then connect also the negative of the power supply to the negative terminal indicated in the circuit. **Verify** that the assembly has been correctly done.

OPERATING. You could adjust the timer using the potentiometer inserted in the P.C.B. Start the operating test placing it at the mimiumn., then you could adjust it according to the needed time. Once the time selected, the I-1 circuit could be activated using the Push Button or using the mains (voltage). In order to activate the module using the push button, you had to install a Quality button in the indicated terminals, and each time you will activate and if the previous timer has been finished, the operating led will light on and the output is connected during the selected time. If you wish to activate the module supplying voltage, you had to put together both pins of the element or J1 jumper indicated in the general drawing. Then each time you supply the module I-1, it will start, lighting a led and activating the relay during the selected operating time.

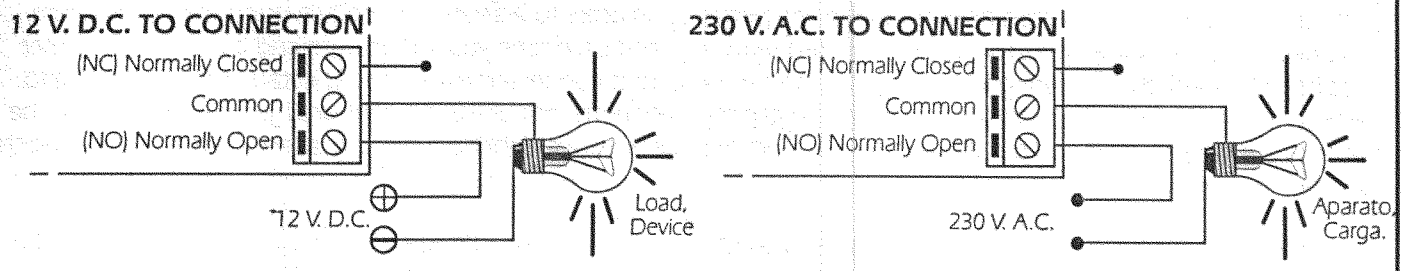
EXTERIOR INSTALLATION OF THE POTENTIOMETER. If you wish to substituate the potentiometer inserted in the P.C.B, you had to withdraw the soldering one. Then, connect cables between the element or jumper indicated as "J2" and the new potentiometer. This last potentiometer have to be lineal and offering 22 K Ohms.

OUTPUT. CONNECTION OF THE LOAD. The output Module (I-1) is controlled by a relay, allowing any load until 5 A. as maximum consumption. The relay has 3 output terminals the normally open at quiescent (NO), the mormally closed at quiescent (NC) and the common. The operating of this mechanism is the same as a switch with two (2) terminals NO and common, if you wish that the output will be activated during the timer, or between the NC and the common to obtain the reverse operating.
In the Output connection paragraph, you could apreciate the typical connection for a devices operating at 12 V. D.C. and to operate at 230 V. A.C.
The installation is between the Common and NO, where the device or load that you wish to control will be activated during the operating time.
To obtain the inverse operating, substitute in the connection the NO by the NC.

GENERAL WIRING MAP.



OUTPUT. LOAD CONNECTION.



CONSIDERATION TO THE OUTPUT. LOAD. During to the operating the module according to be charge, you can happen the fluctuation or incorrect output functionament. This is wrong you have install the anti-spark (resistor & capacitor), between two contacts of the relay make's in the connection such as is to apper in the drawing.